ABSTRACT OF THE DISCLOSURE

Porous materials are disclosed for use in the catalytic conversion of exhaust gases comprising a carrier including a first porous structure, an oxidation catalyst capable of catalyzing the oxidation of NO to NO_2 in the presence of oxygen and catalyzing the oxidation of reducing agent, the oxidation catalyst enclosed within the first porous structure, the first porous structure including pores having dimensions such that the reducing agent is substantially prevented from contacting the oxidation catalyst, whereby the oxidation catalyst primarily catalyses the oxidation of NO to NO_2 as compared to oxidation of the reducing agent during the catalytic conversion of the exhaust gases. Methods for catalytic conversion or exhaust gases using these materials are also disclosed.

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